(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum Internationales Büro





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- (81) Bestimmungsstaaten (soweit nicht anders angegeben, für jede verfügbare nationale Schutzrechtsart): AE, AG, AL,

AM. AT. AU, AZ. BA. BB. BG. BR. BW, BY, BZ, CA, CH, CN. CO. CR. CU. CZ. DE. DK. DM. DZ, EC, EE, EG, ES, FI. GB. GD. GE. GH. GM, HR. HU, ID, IL, IN, IS. JP, KE, KG, KP. KR. KZ, LC. LK, LR. LS. LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM. TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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Erklärungen gemäß Regel 4.17:

- hinsichtlich der Berechtigung des Anmelders, die Priorität einer früheren Amneldung zu beanspruchen (Regel 4.17 Ziffer iii) für den folgenden Bestimmungsstaat US
- Erfindererklärung (Regel 4.17 Ziffer iv) nur für US

Veröffentlicht:

- mit internationalem Recherchenbericht
- (88) Veröffentlichungsdatum des internationalen Recherchenberichts: Februar 2005

[Fortsetzung auf der nächsten Seite]

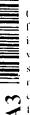
(54) Title: COVERING FOIL FOR BLISTER PACKS

(54) Bezeichnung: DECKFOLIE FÜR BLISTERVERPACKUNGEN

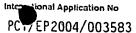
(57) Abstract: The invention relates to a covering foil for thermoformed and cold-formed blisters for the child-proof and elderly friendly packaging of medicaments and of medical products. The covering foil consists of a 5 to 30 µm-thick aluminum foil, which is uncoated on a first side, or is painted with a protective paint with an application weight ranging from 0.1 to 10 g/m² or is laminated with paper having a mass per unit area ranging from 17 to 60 g/m² or is laminated with a 5 to 15 μm-thick polyester film. On the second side, which is provided for sealing against a blister bottom part, the aluminum foil is laminated with a non-monoaxially or non-biaxially drawn plastic film based on polyvinylchloride (PVC) having a film thickness ranging from 40 to 40 µm or polyvinylidene chloride (PVDC) also having a film thickness ranging from 10 to 40 µm or polypropylene (PP) having a film thickness ranging from 6 to 35 µm or polyester having a film thickness ranging from 5 to 15 µm or polychlorotrifluoroethylene (PCTFE) having a film thickness ranging from 8 to 76 µm or cyclo-olefin copolymers (COC) having a thickness ranging from 10 to 40 µm. It is possible to no push through the aluminum/plastic laminate, however, the plastic film makes it difficult for children to bite through.

(57) Zusammenfassung: Eine Deckfolie für thermo- und kaltgeformte Blister zur kindersicheren und seniorenfreundlichen Verpaekung von Medikamenten und medizinischen Produkten besteht ausseiner 5 bis 30 um dieken Aluminiumfolie, die auf einer ersten Seite unbeschichtet ist, oder mit einem Schutzlack mit einem Auftragsgewicht von 0,1 bis 10 g/m² lackiert ist, oder mit Papier mit einem Flächengewicht von 17 bis 60 g/m² kaschiert ist, oder mit einer 5 bis 15 µm dieken Polvesterfolie kaschiert ist. Auf der zweiten, zur Siegelung gegen ein Blisterbodenteil vorgesehenen Seite ist die Aluminiumfolie mit einer nicht, monoaxial oder biaxial gereckten kunststofffolie auf der Basis von Polyvinylchlorid (PVC) mit einer Foliendicke von 10 bis 40 µm, oder Polyvinylidenchlorid (PVDC) mit einer Foliendicke von 10 bis 40 µm, oder Polypropylen (PP) mit einer Foliendicke von 6 bis 35 µm, oder Polyester mit einer Foliendicke von 5 bis 15 µm, oder Polychlortrifluorethylen (PCTFE) mit einer Foliendicke von 8 bis 76 µm, oder Cycloolefin-Copolymeren (COC) mit einer Dicke von 10 bis 40 µm kaschiert. Das Aluminium/Kunststoff-Laminat ist durchdrückbar, jedoch erschwert die Kunststofffolie Kindern das Durchbeissen.





INTERNATIONAL SEARCH REPORT



PCT/EP2004/003583 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B32815/08 B328 B32B27/30 B32B27/32 B65D75/36 B32B27/36 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system tollowed by classification symbols) B65D B32B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 5 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ EP 0 389 207 A (MERCK & CO INC) 1 - 1926 September 1990 (1990-09-26) column 2, line 36 - column 3, line 2 column 3, line 53 - column 5, line 31 χ GB 1 247 935 A (KRAFTCO CORPORATION) 1-19 29 September 1971 (1971-09-29) page 1, line 70 - page 2, line 58 claims 1,3,4,6 χ GB 1 523 244 A (ALCAN FOLIEN GMBH) 1 - 1931 August 1978 (1978-08-31) page 1, line 62 - line 74 page 2, line 1 - line 7 page 2, line 19 - line 59 page 2, line 78 - line 96 page 2, line 121 - line 123 claims 1,3,16

| | X | Further documents are listed in the continuation of box \mathbf{C} . |
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| , | Soe | cial categories of cited documents |

Patent family members are listed in annex.

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search 14 September 2004

Name and mailing address of the ISA

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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Stinchcombe, J

Form PCT/ISA/210 (second sheet) (January 2004)

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INTERNATIONAL SEARCH REPORT

International application No. PCT/EP2004/003583

|] | Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet) | | | | | | |
|-----|--|--|--|--|--|--|--|
| | This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: | | | | | | |
| , | 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: | | | | | | |
| | 2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: | | | | | | |
| () | 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). | | | | | | |
| | Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet) | | | | | | |
| | This International Searching Authority found multiple inventions in this international application, as follows: | | | | | | |
| 1 | See supplemental sheets | | | | | | |
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| • | 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims | | | | | | |
| | 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. | | | | | | |
| | 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: | | | | | | |
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| • | 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: | | | | | | |
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| | Remark on Protest | | | | | | |
| | No protest accompanied the payment of additional search fees. | | | | | | |

coated with a protective coating having a coating weight of 0.1 to 10 g/m^2 or c) is covered with paper having a basis weight of 17 to 60 g/m^2 or d) is covered with a 5 to 15 μ m thick polyester foil and, on a second face, is covered with a polyester foil. Blister packaging containing this foil.

5. Claims 1 to 19 (all in part)

Covering foil for blister packaging containing a 5 to 30 μ m thick aluminium foil which, on a first face, is a) uncoated or b) coated with a protective coating having a coating weight of 0.1 to 10 g/m² or c) is covered with paper having a basis weight of 17 to 60 g/m² or d) is covered with a 5 to 15 μ m thick polyester foil and, on a second face, is covered with a PCTFE foil. Blister packaging containing this foil.

6. Claims 1 to 19 (all in part)

Covering foil for blister packaging containing a 5 to 30 μ m thick aluminium foil which, on a first face, is a) uncoated or b) coated with a protective coating having a coating weight of 0.1 to $10~\text{g/m}^2$ or c) is covered with paper having a basis weight of 17 to $60~\text{g/m}^2$ or d) is covered with a 5 to 15 μ m thick polyester foil and, on a second face, is covered with a COC foil. Blister packaging containing this foil.

INTERNATIONAL SEARCH REPORT

Internal Application No PCT/EP2004/003583

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WEITERE ANGABEN

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PCT/ISA/ 210

Deckfolie für Blisterverpackung enthaltend eine 5-30 m dicke Al-Folie, die auf einer ersten Seite a) unbeschichtet ist oder b) mit einem Schutzlack mit einem Auftragsgewicht von 0,1-10 g/m2 lackiert ist oder c) mit Papier mit einem Flächegewicht von 17-60 g/m2 kaschiert ist oder d) mit einer 5-15 m dicken Polyesterfolie kaschiert ist und auf einer zweiten Seite mit einer PCTFE-Folie kaschiert ist. Blisterverpackung enthaltend diese Folie.

6. Ansprüche: 1-19 (alle in Teil)

Deckfolie für Blisterverpackung enthaltend eine 5-30 m dicke Al-Folie, die auf einer ersten Seite a) unbeschichtet ist oder b) mit einem Schutzlack mit einem Auftragsgewicht von 0,1-10 g/m2 lackiert ist oder c) mit Papier mit einem Flächegewicht von 17-60 g/m2 kaschiert ist oder d) mit einer 5-15 m dicken Polyesterfolie kaschiert ist und auf einer zweiten Seite mit einer COC-Folie kaschiert ist.
Blisterverpackung enthaltend diese Folie.